615PR Circuit Description:

First, the PIR (Q4) sensor transform infrared signal to electronic signal and send it to the amplify circuit from RC net consisting of R2 R3 C3 C7 C13, the amplify circuit's core component is U1,OA(operation amplifier-TLC27L4); the signal amplified is sent MCU by RC net (C16 C31 R14).

Then, the U3(MCU-EM78P153) will dispose the signal received including the signal of battery low form the voltage comparator consisting of R15-18 C19 U1-D.

End, the U3 send code signal to TX module consisting of C1-C4 C12-13 R1-R4 SAW1 Q1 L1-3.The TX module transmit code out by RF(433.92MHz+/-75KHz) in ASK mode. In the same time, MCU drive indication circuit's LED1 to flash to indicate transmitting.